

Applicant : Takumi Nonaka
Appl. No. : 10/675029
Examiner : Richard L. Chiesa
Docket No. : 708493.4010

3. (Withdrawn) The fuel system of a carburetor as described in Claim 1, wherein a fuel nozzle provided with a metering hole in a wall of a tube having a through hole linked to said constant-fuel chamber and a discharge flange is fitted and disposed in a retaining hole by positioning said discharge flange in almost the same plane with the side surface of said intake channel, said metering needle extends in the direction crossing said intake channel inside therein, penetrates into said through hole and forms said fuel adjusting part together with said metering hole, said mixing chamber is provided around said tube, and said nozzle orifice is formed by a notch provided in the outer peripheral edge of said discharge flange.

4. (Original) The fuel system of a carburetor as described in Claim 1, wherein a fuel nozzle provided with a metering hole in a wall of a tube having a through hole linked to said constant-fuel chamber and a discharge flange is fitted and disposed in a retaining hole by positioning said discharge flange in almost the same plane with the surface of said intake channel, said metering needle extends in the direction crossing said intake channel inside therein, penetrates into said through hole and forms said fuel adjusting part together with said metering hole, said mixing chamber is provided around said tube, and said nozzle orifice is formed by a ring-like gap provided on the periphery of said discharge flange.

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5. (Withdrawn) The fuel system of a carburetor as described in Claim 1, wherein a fuel nozzle provided with a metering hole in a wall of a tube having a through hole linked to said constant-fuel chamber is fitted and disposed in a retaining hole, said metering needle extends in the direction crossing said intake channel inside therein, penetrates into said through hole and forms said fuel adjusting part together with said metering hole, said mixing chamber is provided around said tube, and said nozzle orifice is formed by a ring-like gap provided on the front end periphery of said tube.

6. (Withdrawn) The fuel system of a carburetor as described in Claim 1, wherein a metering pipe provided with a metering hole in a wall of a tube having a through hole linked to said constant-fuel chamber is disposed in a body, said metering needle is disposed at a side of said intake channel, penetrates into said through hole, and forms said fuel adjusting part together with said metering hole, said mixing chamber is connected to said metering hole and is isolated from said intake channel by a discharge flange, and said nozzle orifice is formed by a small hole provided in said discharge flange.

7. (Withdrawn) The fuel system of a carburetor as described in Claim 1, wherein a metering pipe provided with a metering hole in a wall of a tube having a through hole linked to said constant-fuel chamber is disposed in a body, said metering needle is disposed at a side of said intake channel, penetrates into said through hole, and forms said fuel adjusting part together with said metering hole,

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said mixing chamber is connected to said metering hole, and said nozzle orifice is formed by a front end opening of a tubular nozzle body protruding from said mixing chamber into said intake channel.

8. (Original) A fuel system of a carburetor, comprising
a fuel nozzle including a tube and a discharge flange with an aperture forming a nozzle orifice opened into an intake channel,
a fuel passage leading from a constant-fuel chamber to the nozzle orifice,
a fuel adjusting part provided in the fuel passage, and
a mixing chamber provided in the fuel passage to receive bleed air and fuel that passed through said fuel adjusting part.

9. (Original) The fuel system of Claim 8, wherein the intake channel has an almost uniform diameter along the entire length and the nozzle orifice is open into the intake channel downstream of a throttle valve.

10. (Original) The fuel system of claim 8, wherein the fuel adjusting part comprises a metering needle linearly and reciprocally movable in response to the open-close operation of a throttle valve.

11. (Original) The fuel system of claim 8, wherein the mixing chamber has a volume sufficient to absorb and cause the relaxation of changes of the negative pressure acting on said nozzle orifice.